

UTAH BLACK BEAR ANNUAL REPORT

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ANNUAL REPORT

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Prepared by:

Kent R. Hersey
Biometrician

and

Kevin Bunnell
Mammals Program Coordinator

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Annual Performance Report for Federal Aid Project W-65-M-54

State of Utah
Department of Natural Resources
DIVISION OF WILDLIFE RESOURCES

An Equal Opportunity Employer

James F. Karpowitz
Director

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INTRODUCTION

The black bear harvest report presents black bear harvest and hunter effort trends across the state of Utah, based on data collected from bear hunters and compiled by the Utah Division of Wildlife Resources (Division). This report represents the black bear portion of Federal Aid Project W-65-M-54, grant agreement period October 1, 2005 through September 30, 2006. This Federal Aid project covers the 2006 hunting season and reports statewide trends since the 1960s. Additionally, this report presents black bear population trend indicators.

For purposes of effective management, the state of Utah is divided into 30 wildlife management units, which are the same for all hunted species. For black bears, some of these units were combined into larger units in order to provide hunters more opportunity, and a few units were open to pursuit only. Hunt units were managed through a limited entry permit system, where a hunter had to apply for and draw from a pool of limited permits. The hunter was allowed to hunt the entire season, or until the permit was filled. Applicants who drew a limited entry permit were required to wait two years before applying for another permit. The season limit was one bear, and females with cubs, or cubs, were not legal to harvest. An unlimited number of pursuit only permits, valid on any open unit statewide, were also available.

Season dates and management units for black bear harvest and pursuit, Utah 2006.

Season	# of open hunt units	Pursuit only units	Hunt season dates		Pursuit season dates		
			Spring	Fall	Spring	Summer	Fall
2006	19	23, 24	4/8–5/31	8/26–9/30, 11/1–11/26	4/8–5/31	7/15–8/13	11/1–11/26

METHODS

All successful hunters were required to have their bear checked by a Division office or officer within 48 hours of harvest. At that time, tooth and hair samples were collected, and a permanent tag affixed. Bear harvest information was also collected at that time. Teeth were sectioned and cementum annuli counted by Matson's Lab in Milltown, Montana, to estimate age of harvested bear. Survival rates were estimated using the Chapman-Robson estimator.

In past years, a black bear harvest mail questionnaire was sent each fall to all bear permit holders. This questionnaire was used to obtain hunter effort information from those who did not harvest a bear. Beginning with the 2000 bear season, this questionnaire was discontinued. As such, numbers of hunters afield each season and bears per hunter were no longer calculated. For the 2006 spring pursuit season, a telephone survey was used to obtain bear pursuit data. No data was collected for the summer and fall pursuit seasons in 2006.

Harvest data from depredating bears, or bears involved in human safety incidents, were taken from damage reports received from USDA-APHIS Wildlife Services and from bears taken by Division personnel. Livestock operators could kill damaging bear and were required to have the carcass checked by a Division officer within 48 hours. Harvest information was collected at that time.

RESULTS

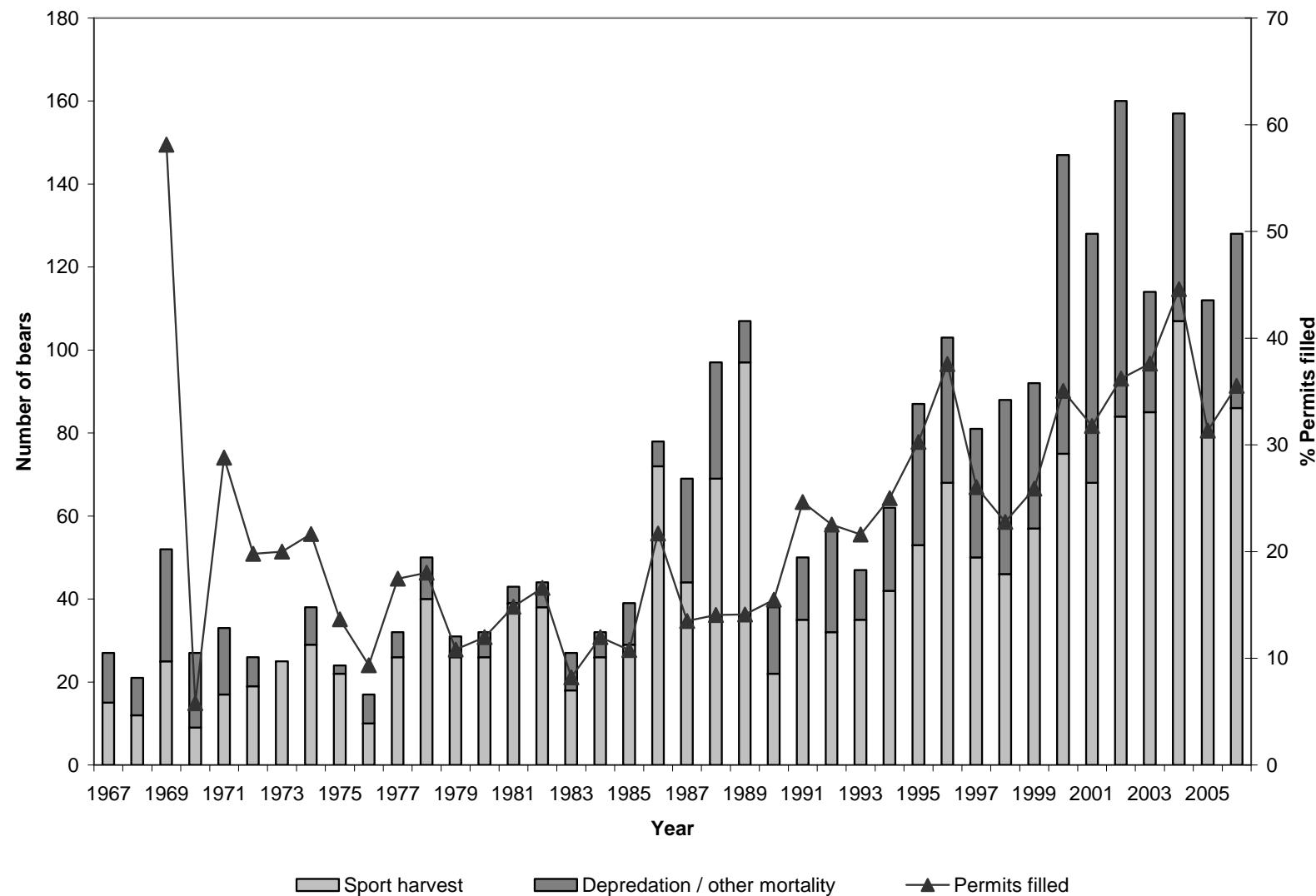
In 2006, a total of 242 limited entry black bear permits, including 13 conservation permits, were issued, and hunters harvested 86 bears, for a total of 36% of permits being filled. Of the 86 bears harvested, 57 were taken in spring and 29 in fall. The harvest increased by 7 bears from 2005 and was almost twice the average of 43.9. The percent permits filled also increased from 2005 and the historic average, which were 32% and 30.7%, respectively. The average age of bears harvested in 2006 was 7.6 and the estimated survival was 85%, which were both up from 2005 and the average. Although the percent of females in the harvest increased to from 30% in 2005 to 36% in 2006, it was still below 40%, which is the maximum percentage of females allowed in the harvest in order to maintain a sustainable population. A total of 42 bears were killed as a result of depredation or other mortality, which was up from 2005 and the historic average. More detailed information describing the 2006 black bear harvest and black bear harvest trends can be found in the following tables and figures.

Statewide black bear harvest statistics, Utah 1967–2006.

Year	Permits sold	Hunters afield	Sport harvest	Permits filled (%)	Bears per hunter	% females	Depredation / other mortality	Total mortality	Pursuit permits
1967	—	—	15	—	—	—	12	27	—
1968	—	—	12	—	—	—	9	21	—
1969	43	31	25	58	0.81	—	27	52	—
1970	155	119	9	6	0.08	—	18	27	—
1971	59	48	17	29	0.35	—	16	33	—
1972	96	77	19	20	0.25	—	7	26	—
1973	125	114	25	20	0.22	—	0	25	—
1974	134	117	29	22	0.25	—	9	38	—
1975	161	144	22	14	0.15	41	2	24	161
1976	107	96	10	9	0.10	42	7	17	48
1977	149	127	26	17	0.20	33	6	32	77
1978	222	185	40	18	0.22	33	10	50	114
1979	240	196	26	11	0.13	19	5	31	91
1980	217	177	26	12	0.15	28	6	32	95
1981	263	227	39	15	0.17	30	4	43	95
1982	229	188	38	17	0.20	39	6	44	93
1983	219	176	18	8	0.10	44	9	27	98
1984	217	184	26	12	0.14	31	6	32	33
1985	269	230	29	11	0.13	27	10	39	86
1986	332	302	72	22	0.24	45	6	78	90
1987	326	262	44	13	0.17	35	25	69	156
1988	491	394	69	14	0.18	35	28	97	173
1989	687	556	97	14	0.17	30	10	107	187
1990	142	119	22	15	0.18	18	16	38	355
1991	142	119	35	25	0.29	23	15	50	364
1992	142	124	32	23	0.26	19	25	57	524
1993	162	136	35	22	0.26	51	12	47	570
1994	168	153	42	25	0.27	40	20	62	552
1995	175	156	53	30	0.34	34	34	87	627
1996	181	174	68	38	0.39	43	35	103	630
1997	192	176	50	26	0.28	44	31	81	638
1998	202	181	46	23	0.25	42	42	88	635
1999	220	199	57	26	0.29	30	35	92	264
2000	214	194	75	35	0.39	35	72	147	285
2001	214	—	68	32	—	37	60	128	340
2002	232	—	84	36	—	32	76	160	359
2003	226	—	85	38	—	29	29	114	378
2004	240	—	107	45	—	21	50	157	373
2005	252	—	79	31	—	23	33	112	414
2006	242	—	86	36	—	35	42	128	414
Total	8,087	—	1,757	—	—	—	865	2,622	9,319
Average	212.8	177.5	43.9	22.8	0.2	33.4	21.6	65.6	291.2

*Beginning in 1999, a bear only pursuit permit was issued. Prior to 1999, cougar/bear pursuit permits were issued.

Statewide black bear mortality, Utah 1967–2006.



Statewide black bear harvest, depredation, and other mortality by unit / subunit, Utah 2006.

	Unit	Male	Female	Unknown	Total	% females	Mean age
2/3/4/5	Cache / Ogden / Morgan Rich / East Canyon	0	0	1	1	0.0	10.0
6/7/8a	Chalk Creek / Kamas / North Slope, Summit	3	0	0	3	0.0	8.0
8bc	North Slope, Daggett / Three Corners	1	0	0	1	0.0	—
9a	South Slope, Yellowstone	3	3	0	6	50.0	5.0
9bcd	South Slope, Vernal / Diamond Mountain. / Bonanza	4	2	0	6	33.3	9.5
10	Book Cliffs	4	0	0	4	0.0	8.0
11ab	Nine Mile, Anthro / Range Creek	5	1	1	7	14.3	10.3
13ab	La Sal, La Sal Mountains / Dolores Triangle	6	6	0	12	50.0	9.1
14	San Juan	13	8	0	21	38.1	9.4
16a	Central Mountains, Nebo	1	1	0	2	50.0	7.0
16b	Central Mountains, North Manti	3	3	0	6	50.0	2.3
16c	Central Mountains, South Manti	7	3	0	10	30.0	4.6
17a	Wasatch Mountains, West	8	5	1	14	35.7	4.0
17bc	Wasatch Mountains, Currant Creek / Avintaquin	7	7	2	16	43.8	2.0
22	Beaver	1	0	0	1	0.0	4.0
25ab	Plateau, Fish Lake / Thousand Lakes	0	0	0	0	—	—
25c/26	Plateau, Boulder / Kaiparowits	5	3	1	9	33.3	9.5
27	Paunsaugunt	0	1	0	1	100.0	—
28/29	Panguitch Lake / Zion	0	1	0	1	100.0	4.0
Unknown		5	2	0	7	28.6	7.0
Statewide total		76	46	6	128	35.9	7.6

Statewide black bear spring sport harvest by unit / subunit, Utah 2006.

Unit	Permits issued	Adult harvest		Subadult harvest		Unknown harvest	Total harvest	% permits filled	% females	Mean age of harvest
		Male	Female	Male	Female					
2/3/4/5	1	0	0	0	0	0	0	0	—	—
6/7/8a	4	1	0	0	0	0	1	25	0	8.0
8bc	3	0	0	0	0	0	0	0	—	—
9a*	8	1	0	0	0	0	1	13	0	5.0
9bcd*	7	3	1	0	0	0	4	57	25	9.5
10*	12	3	0	0	0	0	3	25	0	8.0
11ab*	18	4	1	0	0	0	5	28	20	10.3
13ab*	26	5	6	0	0	0	11	42	55	9.1
14	24	9	6	0	0	0	15	63	40	9.3
16a	5	1	0	0	0	0	1	20	0	7.0
16b	11	0	1	0	1	0	2	18	100	2.3
16c	9	3	1	0	0	0	4	44	25	5.3
17a	10	4	0	0	0	0	4	40	0	5.3
17bc	9	1	1	0	0	0	2	22	50	2.0
22	1	1	0	0	0	0	1	100	0	4.0
25ab	3	0	0	0	0	0	0	0	—	—
25c/26	7	0	1	0	0	0	1	14	100	12.0
27	1	0	1	0	0	0	1	100	100	—
28/29*	6	0	1	0	0	0	1	17	100	4.0
Statewide total	165	36	20	0	1	0	57	35	37	7.8

*Includes 1 conservation permit.

Statewide black bear fall sport harvest by unit / subunit, Utah 2006.

Unit	Permits issued	Adult harvest		Subadult harvest		Unknown harvest	Total harvest	% permits filled	% females	Mean age of harvest
		Male	Female	Male	Female					
2/3/4/5	1	0	0	0	0	0	0	0	—	—
6/7/8a	4	1	0	0	0	0	1	25	0	—
8bc	2	1	0	0	0	0	1	50	0	—
9a	4	2	2	0	0	0	4	100	50	—
9bcd	3	1	1	0	0	0	2	67	50	—
10	3	1	0	0	0	0	1	33	0	—
11ab	4	1	0	0	0	0	1	25	0	—
13ab	4	1	0	0	0	0	1	25	0	—
14**	6	2	1	0	0	0	3	50	33	—
16a	3	0	1	0	0	0	1	33	100	—
16b*	5	2	0	0	1	0	3	60	33	—
16c*	3	1	0	0	1	0	2	67	50	—
17a*	9	2	1	0	0	0	3	33	33	—
17bc*	7	0	1	0	0	0	1	14	100	—
22	1	0	0	0	0	0	0	0	—	—
25ab	3	0	0	0	0	0	0	0	—	—
25c/26*	9	5	0	0	0	0	5	56	0	—
27	1	0	0	0	0	0	0	0	—	—
28/29	5	0	0	0	0	0	0	0	—	—
Statewide total	77	20	7	0	2	0	29	38	31	—

*Includes 1 conservation permit.

**Includes 2 conservation permits.

***Fall bear ages were not available at the time of publication.

Statewide black bear depredation and other mortality by unit / subunit, Utah 2006.

Unit	Wildlife Services / DWR Control			Other mortality			Total mortality	% females	Mean age
	Male	Female	Unknown	Male	Female	Unknown			
2/3/4/5	0	0	0	0	0	1	1	0.0	10.0
6/7/8a	1	0	0	0	0	0	1	0.0	—
8bc	0	0	0	0	0	0	0	—	—
9a	0	1	0	0	0	0	1	100.0	—
9bcd	0	0	0	0	0	0	0	—	—
10	0	0	0	0	0	0	0	—	—
11ab	0	0	0	0	0	1	1	0.0	—
13ab	0	0	0	0	0	0	0	—	—
14	0	0	0	2	1	0	3	33.3	10.5
16a	0	0	0	0	0	0	0	—	—
16b	1	0	0	0	0	0	1	0.0	—
16c	1	1	0	2	0	0	4	25.0	2.0
17a	1	4	1	1	0	0	7	57.1	2.3
17bc	6	5	2	0	0	0	13	38.5	—
22	0	0	0	0	0	0	0	—	—
25ab	0	0	0	0	0	0	0	—	—
25c/26	0	2	1	0	0	0	3	66.7	7.0
27	0	0	0	0	0	0	0	—	—
28/29	0	0	0	0	0	0	0	—	—
Unknown	5	2	0	0	0	0	7	28.6	7.0
Statewide total	15	15	4	5	1	2	42	38.1	6.0

*Other mortality includes highway mortality, poaching, and unknown mortality.

Historic statewide black bear pursuit statistics, Utah 2002–2006.

Year	Spring			Summer / Fall		
	Pursuers	Bears / pursuit-day	Bears / pursuer	Pursuers	Bears / pursuit-day	Bears / pursuer
2002*	318	0.46	7.48	—	—	—
2003**	291	0.49	8.68	228	0.52	6.21
2004	309	0.43	5.04	212	0.45	5.85
2005	256	0.41	4.97	436	0.33	2.72
2006	328	0.29	3.69	—	—	—
Average	300	0.42	5.95	292	0.42	4.39

*Spring 2002 includes Summer / Fall 2001 and Spring 2002

**Spring 2003 includes Summer / Fall 2002 and Spring 2003

Statewide spring black bear pursuit statistics by unit / subunit, Utah 2006.

Unit	n	Pursuers afield	Pursuit- days afield	Number of bears treed					Bears treed / pursuit-day	Bears treed / pursuer
				Males	Females	Cubs	Unknown	Total		
2/3/4/5	0	—	—	—	—	—	—	—	—	—
6/7/8a	0	—	—	—	—	—	—	—	—	—
8bc	4	17	67	13	13	8	4	38	0.56	2.25
9a	2	8	42	0	0	0	0	0	0.00	0.00
9bcd	17	71	714	59	34	29	4	126	0.18	1.76
10	29	122	1084	282	76	13	13	382	0.35	3.14
11ab	7	29	441	34	17	0	0	50	0.11	1.71
13ab	13	55	572	50	88	105	42	286	0.50	5.23
14	7	29	189	38	46	25	0	109	0.58	3.71
16a	5	21	269	25	50	25	0	101	0.38	4.80
16b	3	13	55	4	4	0	0	8	0.15	0.67
16c	2	8	92	8	0	0	0	8	0.09	1.00
17a	7	29	181	4	8	0	4	17	0.09	0.57
17bc	7	29	134	4	4	4	0	13	0.09	0.43
22	3	13	92	8	0	0	0	8	0.09	0.67
23	0	—	—	—	—	—	—	—	—	—
24	0	—	—	—	—	—	—	—	—	—
25ab	2	8	55	0	4	0	0	4	0.08	0.50
25c/26	9	38	223	21	17	0	21	59	0.26	1.56
27	0	—	—	—	—	—	—	—	—	—
28/29	1	4	13	0	0	0	0	0	0.00	0.00
Statewide total	78	328	4223	550	361	209	88	1209	0.29	3.69

*Totals for sample size and pursuers afield are not the sum of the columns because pursuers could pursue on multiple units.

**84 permit holders surveyed; 353 permits sold as of May 26, 2006; Projection factor = 4.20

***7% of permit holders did not pursue

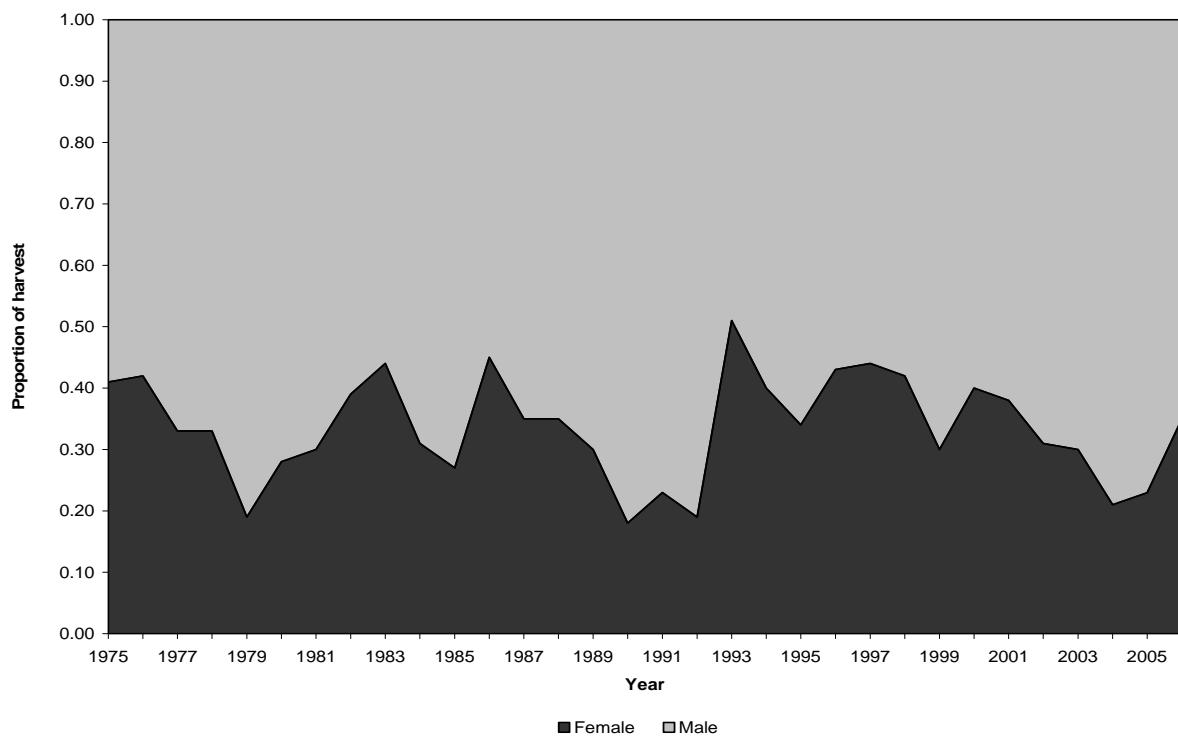
Black bear harvest by method of take, Utah 2001–2006.

Year	Method of take						% using archery	% hunters using guides
	Bait	Dogs	Calls	Stalk	Unknown	Total		
2001	4	44	1	3	13	65	12	43
2002	7	59	0	1	16	83	18	33
2003	10	57	0	0	19	86	24	38
2004	18	70	2	8	9	107	31	36
2005	6	66	1	2	4	79	25	28
2006	5	66	0	9	6	86	20	41

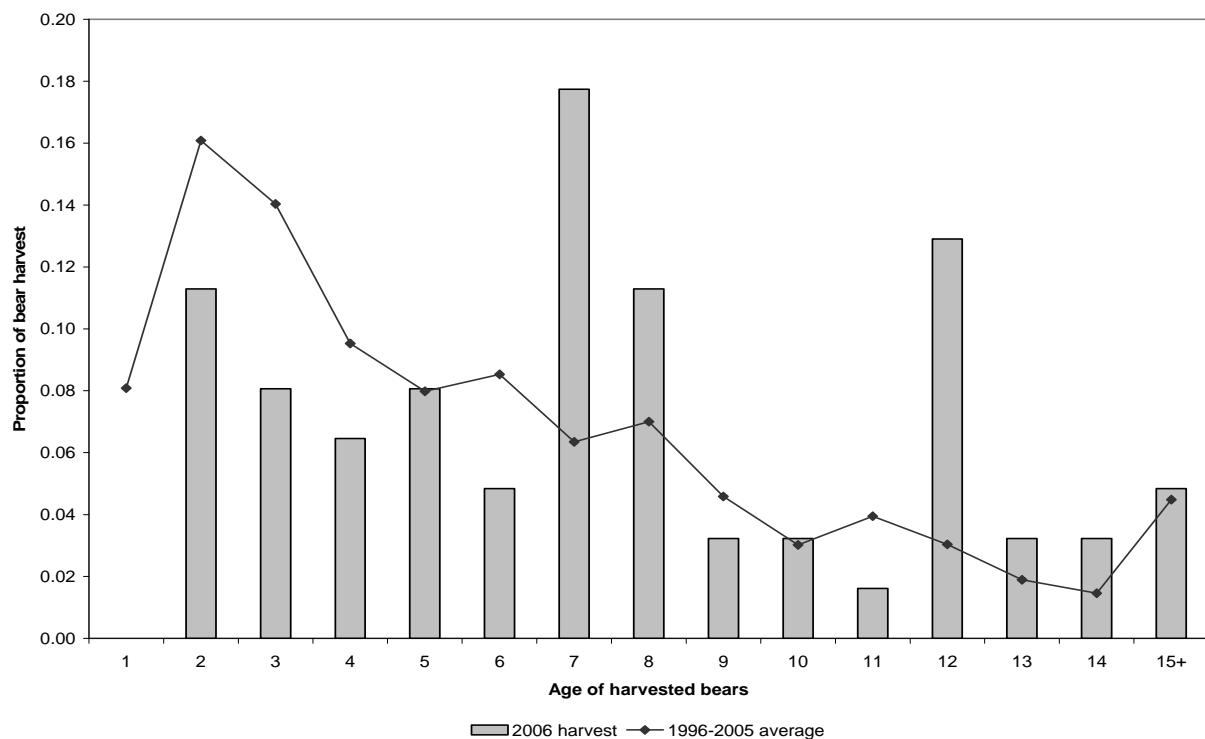
Adult black bear survival estimated with Chapman-Robson estimator, Utah 1996–2006.

Year	n	Adult survival (%)	95% Confidence Interval
1996	83	79.4	75.4–83.4
1997	60	78.0	73.0–83.0
1998	54	77.7	72.4–83.0
1999	—	82.0	77.7–86.2
2000	83	80.9	77.2–84.6
2001	98	81.5	78.2–84.8
2002	130	81.2	78.3–84.1
2003	68	83.6	80.0–87.2
2004	115	82.4	79.5–85.4
2005	58	83.6	79.7–87.5
2006	62	85.0	81.5–88.5

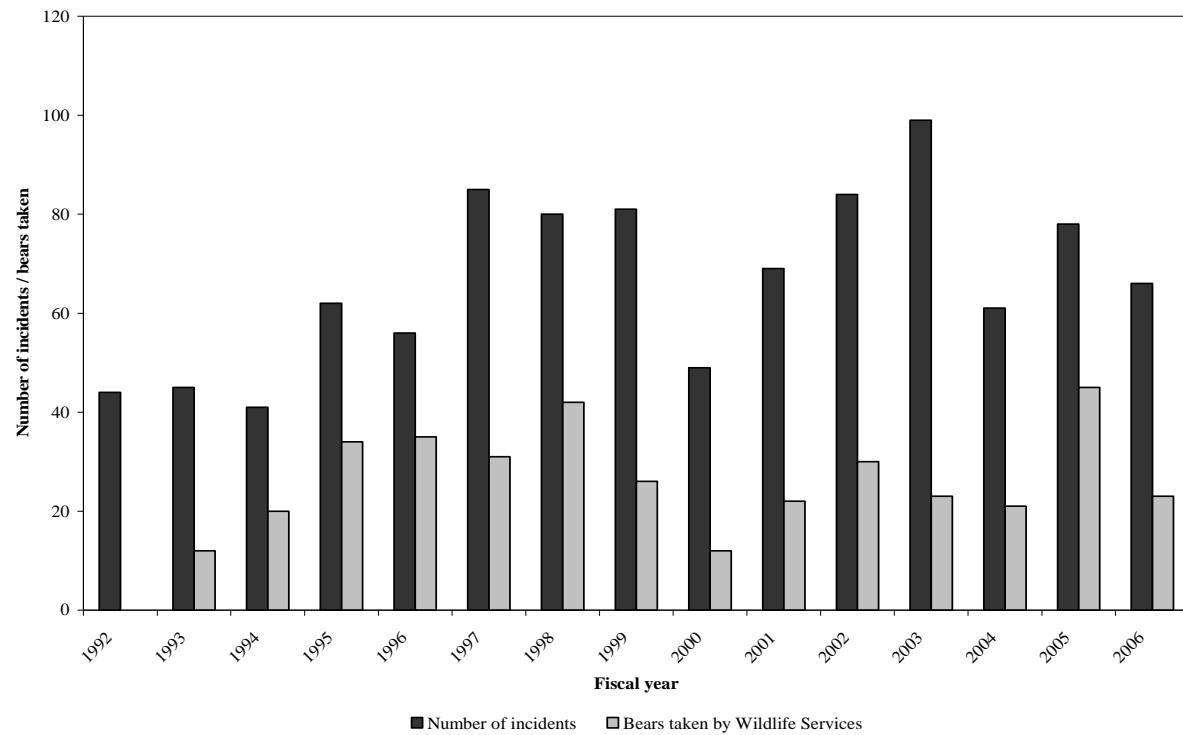
Sex ratio of black bear sport harvest, Utah 1975–2006.



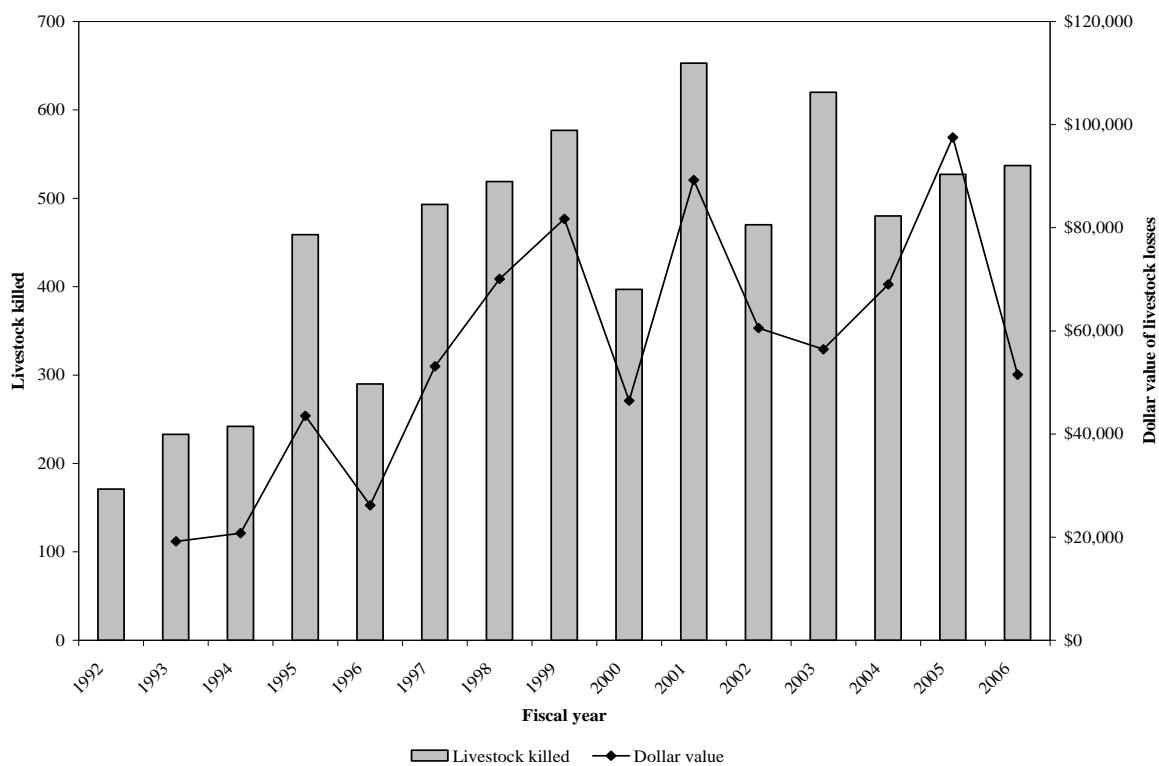
Proportion of black bears harvested by age class, Utah 2006.



Livestock depredation incidents and black bears killed by Wildlife Services, Utah 1992–2006.



Livestock losses due to black bear depredation, Utah 1992–2006.



APPENDIX A

HISTORIC STATEWIDE BLACK BEAR HARVEST

Statewide black bear mortality, Utah 1990–2006.

Year	Permits issued	Sport harvest								Depredation / other mortality				Total				
		Adult		Subadult		Unknown	Total	% permits filled	% females	Mean age	Male	Female	Unknown	Total	Harvest + mortality	% females	Mean age	Adult survival
1990	142	15	4	3	0	0	22	15	18	—	20	5	0	25	47	19	—	—
1991	142	23	4	4	4	0	35	25	23	—	12	7	0	19	54	28	—	—
1992	142	21	5	5	1	0	32	23	19	—	20	14	0	34	66	30	—	—
1993	162	14	17	3	1	0	35	22	51	—	11	3	0	14	49	43	—	—
1994	168	22	9	3	8	0	42	25	40	—	16	9	0	25	67	39	—	—
1995	175	30	16	5	2	0	53	30	34	—	30	15	0	45	98	34	—	—
1996	181	32	23	7	6	0	68	38	43	—	40	6	0	46	114	31	5.1	0.78
1997	192	25	20	3	2	0	50	26	44	—	26	5	0	31	81	33	5.2	0.78
1998	202	20	15	6	4	1	46	23	41	—	24	9	9	42	88	32	5.1	0.78
1999	222	33	11	7	6	0	57	26	30	—	18	11	6	35	92	30	5.6	0.82
2000	214	35	23	10	7	0	75	35	40	—	62	6	4	72	147	24	5.7	0.82
2001	214	40	24	1	1	2	68	32	37	6.9	37	21	2	60	128	36	6.2	0.79
2002	232	53	25	1	2	3	84	36	32	6.8	41	27	8	76	160	34	6.6	0.83
2003	226	56	20	1	5	3	85	38	29	7.4	18	8	3	29	114	29	6.9	0.83
2004	230	82	22	3	0	0	107	47	21	6.6	29	20	1	50	157	27	6.4	0.82
2005	238	58	17	0	1	0	76	32	24	6.6	15	15	3	33	109	30	6.4	0.84
2006*	242	56	27	0	3	0	86	36	35	7.8	20	16	6	42	128	36	7.6	0.86
Total	3,324	615	282	62	53	9	1,021	—	—	—	439	197	42	678	1,699	—	—	—
Mean	195.5	36.2	16.6	3.6	3.1	0.5	60.1	30.7	32.8	7.0	25.8	11.6	2.5	39.9	99.9	31.3	6.1	0.81

*Includes 13 conservation permits

APPENDIX B

HISTORIC BLACK BEAR HARVEST BY HUNT UNIT

Black bear mortality for Units 2, 3, 4, and 5 – Cache, Ogden, Morgan Rich, and East Canyon, Utah 1990–2006.

Year	Permits issued	Sport harvest								Depredation / other mortality				Total			
		Adult		Subadult		Unknown	Total	% permits filled	% females	Mean age	Male	Female	Unknown	Total	Harvest + mortality	% females	Mean age
		Male	Female	Male	Female												
1990	1	0	0	0	0	0	0	0	—	—	0	0	0	0	0	—	—
1991	1	0	0	0	0	0	0	0	—	—	0	0	0	0	0	—	—
1992	1	0	0	0	0	0	0	0	—	—	0	0	0	0	0	—	—
1993	1	0	0	0	0	0	0	0	—	—	0	0	0	0	0	—	—
1994	1	0	0	0	0	0	0	0	—	—	0	0	0	0	0	—	—
1995	1	0	0	0	0	0	0	0	—	—	0	0	0	0	0	—	—
1996	1	0	0	0	0	0	0	0	—	—	0	0	0	0	0	—	—
1997	1	0	0	0	0	0	0	0	—	—	1	0	0	1	1	—	—
1998	1	0	0	0	0	0	0	0	—	—	0	0	1	1	1	—	—
1999	1	0	0	0	0	0	0	0	—	—	1	0	0	1	1	—	—
2000	1	1	0	0	0	0	1	100	0	—	0	0	0	0	1	0	3.0
2001	1	0	0	0	0	0	0	0	—	—	0	0	0	0	0	—	—
2002	1	0	0	0	0	0	0	0	—	—	0	0	0	0	0	—	—
2003*	1	0	0	0	0	0	0	0	—	—	0	0	0	0	0	—	—
2004	1	0	0	0	0	0	0	0	—	—	0	0	0	0	0	—	—
2005	1	0	0	0	0	0	0	0	—	—	0	0	0	0	0	—	—
2006	2	0	0	0	0	0	0	0	—	—	0	0	1	1	1	—	10.0
Total	18	1	0	0	0	0	1	—	—	—	2	0	2	4	5	—	—
Mean	1.1	0.1	0.0	0.0	0.0	0.0	0.1	6	0	—	0.1	0.0	0.1	0.2	0.3	0	6.5

*Unit 2 was pursuit only in 2003.

**Unit 5 was added to units 2, 3, and 4 in 2004.

Black bear mortality for Units 6, 7, and 8a – Chalk Creek, Kamas, and North Slope, Summit, Utah 1990–2006.

Year	Permits issued	Sport harvest								Depredation / other mortality				Total			
		Adult		Subadult		Unknown	Total	% permits filled	% females	Mean age	Male	Female	Unknown	Total	Harvest + mortality	% females	Mean age
		Male	Female	Male	Female												
1990	3	0	0	0	0	0	0	0	—	—	0	0	0	0	0	—	—
1991	3	0	0	0	0	0	0	0	—	—	1	0	0	1	1	0	—
1992	3	1	0	0	0	0	1	33	0	—	0	0	0	0	1	0	—
1993	3	0	0	0	0	0	0	0	—	—	3	0	0	3	3	0	—
1994	3	0	0	0	0	0	0	0	—	—	0	1	0	1	1	100	—
1995	3	0	0	0	0	0	0	0	—	—	4	0	0	4	4	0	—
1996	2	0	0	0	0	0	0	0	—	—	0	0	0	0	0	—	—
1997	2	1	0	0	0	0	1	50	0	—	3	0	0	3	4	0	—
1998	2	0	0	0	1	0	1	50	100	—	4	1	0	5	6	33	5.7
1999	2	0	0	0	0	0	0	0	—	—	3	1	0	4	4	25	—
2000	2	0	0	0	1	0	1	50	100	—	3	0	0	3	4	25	1.0
2001	2	0	0	0	0	0	0	0	—	—	6	7	0	13	13	54	3.6
2002	2	0	0	0	0	0	0	0	—	—	6	1	0	7	7	14	2.0
2003	2	0	0	0	0	0	0	0	—	—	2	1	0	3	3	33	7.3
2004	5	1	0	0	0	0	1	20	0	2.0	0	2	0	2	3	67	3.0
2005	5	2	1	0	0	0	3	60	33	2.5	2	1	2	5	8	25	4.3
2006	8	2	0	0	0	0	2	25	0	8.0	1	0	0	1	3	0	8.0
Total	52	7	1	0	2	0	10	—	—	—	38	15	2	55	65	—	—
Mean	3.1	0.4	0.1	0.0	0.1	0.0	0.6	19	30	4.2	2.2	0.9	0.1	3.2	3.8	28	4.4

Black bear mortality for Units 8b and 8c – North Slope, Daggett / Three Corners, Utah 1998–2006.

Year	Permits issued	Sport harvest								Depredation / other mortality				Total			
		Adult		Subadult		Unknown	Total	% permits filled	% females	Mean age	Male	Female	Unknown	Total	Harvest + mortality	% females	Mean age
		Male	Female	Male	Female												
1998	4	0	0	0	0	0	0	0	—	—	0	0	0	0	0	—	—
1999	4	1	0	0	0	0	1	25	0	1.0	0	0	0	0	1	0	1.0
2000	4	0	0	0	0	0	0	0	—	—	2	0	0	2	2	0	—
2001	4	0	0	0	0	0	0	0	—	—	1	0	0	1	1	0	—
2002	4	0	0	0	0	0	0	0	—	—	2	2	0	4	4	50	3.0
2003	4	1	0	0	0	0	1	25	0	7.0	0	0	0	0	1	0	7.0
2004	4	0	0	0	0	0	0	0	—	—	1	0	0	1	1	0	2.0
2005	4	1	1	0	0	0	2	50	50	6.0	0	0	0	0	2	50	6.0
2006	5	1	0	0	0	0	1	20	0	—	0	0	0	0	1	0	—
Total	37	4	1	0	0	0	5	—	—	—	6	2	0	8	13	—	—
Mean	4.1	0.4	0.1	0.0	0.0	0.0	0.6	14	20	4.7	0.7	0.2	0.0	0.9	1.4	23	3.8

Black bear mortality for Unit 9 – South Slope (all subunits), Utah 1990–2001.

Year	Permits issued	Sport harvest								Depredation / other mortality				Total			
		Adult		Subadult		Unknown	Total	% permits filled	% females	Mean age	Male	Female	Unknown	Total	Harvest + mortality	% females	Mean age
		Male	Female	Male	Female												
1990	16	2	1	0	0	0	3	19	33	—	1	2	0	3	6	50	—
1991	16	2	0	2	0	0	4	25	0	—	1	1	0	2	6	17	—
1992	16	1	0	1	1	0	3	19	33	—	4	2	0	6	9	33	—
1993	16	3	1	1	0	0	5	31	20	—	1	0	0	1	6	17	—
1994	16	3	0	0	1	0	4	25	25	—	1	0	0	1	5	20	—
1995	16	3	2	0	0	0	5	31	40	—	6	1	0	7	12	25	—
1996	17	2	0	1	0	0	3	18	0	—	4	2	0	6	9	22	—
1997	18	1	1	0	0	0	2	11	50	—	3	0	0	3	5	20	—
1998	14	1	2	0	0	0	3	21	67	—	3	2	3	8	11	36	11.7
1999	14	5	0	0	1	0	6	43	17	—	2	1	0	3	9	22	8.5
2000	14	4	1	0	0	0	5	36	20	—	3	0	0	3	8	13	7.8
2001	14	2	2	0	0	0	4	29	50	2.6	6	5	1	12	16	44	5.4
Total	187	29	10	5	3	0	47	—	—	—	35	16	4	55	102	—	—
Mean	15.6	2.4	0.8	0.4	0.3	0.0	3.9	25	28	2.6	2.9	1.3	0.3	4.6	8.5	28	8.4

Black bear mortality for Units 9a – South Slope, Yellowstone, Utah 2002–2006.

Year	Permits issued	Sport harvest								Depredation / other mortality				Total			
		Adult		Subadult		Unknown	Total	% permits filled	% females	Mean age	Male	Female	Unknown	Total	Harvest + mortality	% females	Mean age
		Male	Female	Male	Female												
2002	6	1	1	0	0	1	3	50	33	6.7	0	0	0	0	3	33	6.7
2003	7	0	2	0	0	0	2	29	100	11.0	0	0	0	0	2	100	11.0
2004	6	2	2	0	0	0	4	67	50	12.3	1	1	0	2	6	50	12.3
2005	12	4	1	0	0	0	5	42	20	4.0	0	1	0	1	6	33	5.2
2006*	12	3	2	0	0	0	5	42	40	5.0	0	1	0	1	6	50	5.0
Total	43	10	8	0	0	1	19	—	—	—	1	3	0	4	23	—	—
Mean	8.6	2.0	1.6	0.0	0.0	0.2	3.8	44	42	7.8	0.2	0.6	0.0	0.8	4.6	48	8.0

*Includes 1 conservation permit.

Black bear mortality for Units 9b, 9c, and 9d – South Slope, Vernal / Diamond Mountain / Bonanza, Utah 2002–2006.

Year	Permits issued	Sport harvest								Depredation / other mortality				Total			
		Adult		Subadult		Unknown	Total	% permits filled	% females	Mean age	Male	Female	Unknown	Total	Harvest + mortality	% females	Mean age
		Male	Female	Male	Female												
2002	10	0	2	0	0	1	3	30	67	2.7	2	1	0	3	6	50	2.5
2003	9	2	2	0	0	0	4	44	50	7.3	0	1	1	2	6	50	8.2
2004	9	2	2	2	0	1	7	78	29	4.6	0	1	0	1	8	38	4.6
2005	11	6	1	0	0	0	7	64	14	7.3	0	0	0	0	7	14	—
2006*	10	4	2	0	0	0	6	60	33	9.5	0	0	0	0	6	33	9.5
Total	49	14	9	2	0	2	27	—	—	—	2	3	1	6	33	—	—
Mean	9.8	2.8	1.8	0.4	0.0	0.4	5.4	55	33	6.3	0.4	0.6	0.2	1.2	6.6	36	6.2

*Includes 1 conservation permit.

Black bear mortality for Unit 10 – Book Cliffs, Utah 1990–2006.

Year	Permits issued	Sport harvest								Depredation / other mortality				Total			
		Adult		Subadult		Unknown	Total	% permits filled	% females	Mean age	Male	Female	Unknown	Total	Harvest + mortality	% females	Mean age
		Male	Female	Male	Female												
1990	18	1	2	0	0	0	3	17	67	—	3	0	0	3	6	33	—
1991	18	5	1	0	1	0	7	39	29	—	0	0	0	0	7	29	—
1992	18	5	1	0	0	0	6	33	17	—	2	0	0	2	8	13	—
1993	18	3	4	0	0	0	7	39	57	—	0	0	0	0	7	57	—
1994	18	3	3	1	1	0	8	44	50	—	1	0	0	1	9	44	—
1995	18	11	1	0	0	0	12	67	8	—	2	0	0	2	14	7	—
1996	18	5	2	3	0	0	10	56	20	—	1	0	0	1	11	18	—
1997	18	5	3	0	0	0	8	44	38	—	0	0	0	0	8	38	—
1998	30	3	2	0	2	0	7	23	57	—	0	0	0	0	7	57	5.2
1999	30	9	0	0	1	0	10	33	10	—	1	1	0	2	12	17	6.2
2000	29	4	6	3	1	0	14	48	50	—	9	3	0	12	26	38	6.5
2001	15	4	3	1	0	0	8	53	38	6.8	1	0	0	1	9	33	6.8
2002	25	7	5	0	0	0	12	48	42	7.3	1	0	1	2	14	36	7.3
2003	25	3	3	1	0	2	9	36	33	8.0	2	0	1	3	12	25	8.3
2004	24	10	3	0	0	0	13	54	23	5.9	2	2	0	4	17	29	5.9
2005	29	5	2	0	1	0	8	28	38	7.3	0	0	0	0	8	38	7.3
2006*	15	4	0	0	0	0	4	27	0	8.0	0	0	0	0	4	0	8.0
Total	366	87	41	9	7	2	146	—	—	—	25	6	2	33	179	—	—
Mean	21.5	5.1	2.4	0.5	0.4	0.1	8.6	40	33	7.2	1.5	0.4	0.1	1.9	10.5	30	6.8

*Includes 1 conservation permit.

Black bear mortality for Unit 11a and 11b – Nine Mile, Anthro / Range Creek, Utah 1990–2006.

Year	Permits issued	Sport harvest								Depredation / other mortality				Total			
		Adult		Subadult		Unknown	Total	% permits filled	% females	Mean age	Male	Female	Unknown	Total	Harvest + mortality	% females	Mean age
		Male	Female	Male	Female												
1990	44	12	0	2	0	0	14	32	0	—	6	0	0	6	20	0	—
1991	22	2	0	1	2	0	5	23	40	—	1	1	0	2	7	43	—
1992	22	5	0	1	0	0	6	27	0	—	4	1	0	5	11	9	—
1993	27	0	3	0	1	0	4	15	100	—	0	0	0	0	4	100	—
1994	27	1	3	2	4	0	10	37	70	—	4	2	0	6	16	56	—
1995	24	2	3	1	1	0	7	29	57	—	3	3	0	6	13	54	—
1996	24	4	3	2	3	0	12	50	50	—	5	2	0	7	19	42	—
1997	20	2	2	0	0	0	4	20	50	—	1	0	0	1	5	40	—
1998	20	3	1	1	0	0	5	25	20	—	0	0	0	0	5	20	3.4
1999	20	2	0	0	1	0	3	15	33	—	0	0	0	0	3	33	2.7
2000	20	3	2	1	2	0	8	40	50	—	9	0	0	9	17	24	8.3
2001	15	3	0	0	0	0	3	20	0	8.3	1	0	0	1	4	0	7.8
2002	20	7	0	0	0	0	7	35	0	5.0	2	3	0	5	12	25	5.0
2003	20	7	2	0	0	0	9	45	22	12.0	0	0	0	0	9	22	12.0
2004	19	9	2	0	0	0	11	58	18	7.5	4	4	0	8	19	32	8.6
2005	19	2	0	0	0	0	2	11	0	6.5	0	0	0	0	2	0	6.5
2006*	22	5	1	0	0	0	6	27	17	10.3	0	0	1	1	7	14	10.3
Total	385	69	22	11	14	0	116	—	—	—	40	16	1	57	173	—	—
Mean	22.6	4.1	1.3	0.6	0.8	0.0	6.8	30	31	8.3	2.4	0.9	0.1	3.4	10.2	30	7.2

*Includes 1 conservation permit.

Black bear mortality for Units 13a and 13b – La Sal, La Sal Mountains / Dolores Triangle, Utah 1990–2006.

Year	Permits issued	Sport harvest								Depredation / other mortality				Total			
		Adult		Subadult		Unknown	Total	% permits filled	% females	Mean age	Male	Female	Unknown	Total	Harvest + mortality	% females	Mean age
		Male	Female	Male	Female												
1990	10	1	0	0	0	0	1	10	0	—	2	0	0	2	3	0	—
1991	10	5	1	1	0	0	7	70	14	—	1	0	0	1	8	13	—
1992	10	1	1	0	0	0	2	20	50	—	1	0	0	1	3	33	—
1993	12	3	1	1	0	0	5	42	20	—	0	0	0	0	5	20	—
1994	12	8	0	0	0	0	8	67	0	—	0	0	0	0	8	0	—
1995	12	2	3	1	0	0	6	50	50	—	0	0	0	0	6	50	—
1996	16	6	5	0	0	0	11	69	45	—	2	0	0	2	13	38	—
1997	20	4	7	2	1	0	14	70	57	—	6	0	0	6	20	40	—
1998	20	5	4	1	1	0	11	55	45	—	0	0	1	1	12	42	5.0
1999	20	3	2	2	2	0	9	45	44	—	0	0	0	0	9	44	4.8
2000	19	4	6	0	0	0	10	53	60	—	2	0	0	2	12	50	7.3
2001	30	13	3	0	0	0	16	53	19	8.1	2	0	0	2	18	17	7.4
2002	30	17	4	0	0	0	21	70	19	6.9	3	0	0	3	24	17	7.0
2003	30	13	3	0	2	0	18	60	28	9.0	1	0	0	1	19	26	9.0
2004	28	12	3	0	0	0	15	54	20	7.8	0	1	0	1	16	25	7.8
2005	28	8	2	0	0	0	10	36	20	7.0	0	3	0	3	13	38	5.7
2006*	30	6	6	0	0	0	12	40	50	9.1	0	0	0	0	12	50	9.1
Total	337	111	51	8	6	0	176	—	—	—	20	4	1	25	201	—	—
Mean	19.8	6.5	3.0	0.5	0.4	0.0	10.4	52	32	8.0	1.2	0.2	0.1	1.5	11.8	30	7.0

*Includes 1 conservation permit.

Black bear mortality for Unit 14 – San Juan, Utah 1990–2006.

Year	Permits issued	Sport harvest								Depredation / other mortality				Total			
		Adult		Subadult		Unknown	Total	% permits filled	% females	Mean age	Male	Female	Unknown	Total	Harvest + mortality	% females	Mean age
		Male	Female	Male	Female												
1990	16	3	1	1	0	0	5	31	20	—	0	0	0	0	5	20	—
1991	16	3	0	0	0	0	3	19	0	—	0	0	0	0	3	0	—
1992	16	2	0	1	0	0	3	19	0	—	1	0	0	1	4	0	—
1993	16	0	3	0	1	0	4	25	100	—	0	0	0	0	4	100	—
1994	16	4	0	0	0	0	4	25	0	—	0	0	0	0	4	0	—
1995	16	5	3	0	1	0	9	56	44	—	0	1	0	1	10	50	—
1996	20	8	5	1	1	0	15	75	40	—	2	1	0	3	18	39	—
1997	20	3	3	1	0	0	7	35	43	—	2	0	0	2	9	33	—
1998	20	4	3	2	0	1	10	50	30	—	0	0	0	0	10	30	6.1
1999	20	2	1	2	0	0	5	25	20	—	0	0	0	0	5	20	9.8
2000	19	6	1	3	1	0	11	58	18	—	2	0	0	2	13	15	3.7
2001	30	12	7	0	0	1	20	67	35	7.3	4	3	0	7	27	37	7.6
2002	30	10	5	0	0	0	15	50	33	8.1	3	0	0	3	18	28	8.1
2003	30	10	3	0	0	0	13	43	23	7.4	0	0	0	0	13	23	7.4
2004	28	18	1	0	0	0	19	68	5	8.4	0	0	0	0	19	5	8.4
2005	28	7	3	0	0	0	10	36	30	9.1	0	0	0	0	10	30	9.0
2006*	30	11	7	0	0	0	18	60	39	9.3	2	1	0	3	21	38	9.4
Total	371	108	46	11	4	2	171	—	—	—	16	6	0	22	193	—	—
Mean	21.8	6.4	2.7	0.6	0.2	0.1	10.1	46	29	8.2	0.9	0.4	0.0	1.3	11.4	29	7.7

*Includes 2 conservation permit.

Black bear mortality for Unit 16a – Central Mountains, Nebo, Utah 1990–2006.

Year	Permits issued	Sport harvest								Depredation / other mortality				Total			
		Adult		Subadult		Unknown	Total	% permits filled	% females	Mean age	Male	Female	Unknown	Total	Harvest + mortality	% females	Mean age
		Male	Female	Male	Female												
1990	3	0	0	0	0	0	0	0	—	—	2	0	0	2	2	0	—
1991	3	0	0	0	0	0	0	0	—	—	0	0	0	0	0	—	—
1992	3	0	0	0	0	0	0	0	—	—	0	0	0	0	0	—	—
1993	6	0	0	0	0	0	0	0	—	—	0	0	0	0	0	—	—
1994	6	0	0	0	0	0	0	0	—	—	1	0	0	1	1	0	—
1995	6	0	0	0	0	0	0	0	—	—	3	0	0	3	3	0	—
1996	6	0	0	0	0	0	0	0	—	—	0	0	0	0	0	—	—
1997	6	0	0	0	0	0	0	0	—	—	1	0	0	1	1	0	—
1998	6	0	0	1	0	0	1	17	0	—	0	0	0	0	1	0	1.0
1999	6	1	1	0	0	0	2	33	50	—	0	0	0	0	2	50	6.0
2000	6	2	1	0	0	0	3	50	33	—	1	0	0	1	4	25	4.5
2001	6	0	1	0	0	1	2	33	50	2.5	0	0	0	0	2	50	2.5
2002	6	1	1	1	0	0	3	50	33	6.0	1	0	1	2	5	20	7.5
2003	8	3	0	0	0	0	3	38	0	3.0	1	0	0	1	4	0	3.0
2004	8	2	1	0	0	0	3	38	33	3.5	1	0	0	1	4	25	5.3
2005	8	2	0	0	0	0	2	25	0	1.8	0	1	0	1	3	33	2.3
2006	8	1	1	0	0	0	2	25	50	7.0	0	0	0	0	2	50	7.0
Total	101	12	6	2	0	1	21	—	—	—	11	1	1	13	34	—	—
Mean	5.9	0.7	0.4	0.1	0.0	0.1	1.2	21	29	4.0	0.6	0.1	0.1	0.8	2.0	21	4.3

Black bear mortality for Unit 16b – Central Mountains, North Manti, Utah 1990–2006.

Year	Permits issued	Sport harvest								Depredation / other mortality				Total			
		Adult		Subadult		Unknown	Total	% permits filled	% females	Mean age	Male	Female	Unknown	Total	Harvest + mortality	% females	Mean age
		Male	Female	Male	Female												
1990	16	1	0	0	0	0	1	6	0	—	3	1	0	4	5	20	—
1991	16	2	0	0	0	0	2	13	0	—	2	2	0	4	6	33	—
1992	16	2	0	0	0	0	2	13	0	—	4	7	0	11	13	54	—
1993	20	0	2	0	0	0	2	10	100	—	1	1	0	2	4	75	—
1994	22	0	0	0	0	0	0	0	—	—	1	0	0	1	1	0	—
1995	22	1	0	1	0	0	2	9	0	—	1	3	0	4	6	50	—
1996	21	1	2	0	0	0	3	14	67	—	6	0	0	6	9	22	—
1997	21	2	1	0	1	0	4	19	50	—	5	3	0	8	12	42	—
1998	20	0	1	0	0	0	1	5	100	—	4	0	1	5	6	17	3.8
1999	25	2	2	1	1	0	6	24	50	—	2	5	0	7	13	62	4.7
2000	25	1	1	0	2	0	4	16	75	—	3	0	0	3	7	43	4.3
2001	22	1	4	0	1	0	6	27	83	3.5	5	0	0	5	11	45	2.9
2002	16	1	2	0	1	1	5	31	60	10.0	1	1	2	4	9	44	10.0
2003	16	0	1	0	0	0	1	6	100	5.0	2	0	0	2	3	33	4.5
2004	15	4	1	0	0	0	5	33	20	3.0	6	1	0	7	12	17	3.7
2005	15	6	0	0	0	0	6	40	0	3.7	1	1	0	2	8	13	3.7
2006*	16	2	1	0	2	0	5	31	60	2.3	1	0	0	1	6	50	2.3
Total	324	26	18	2	8	1	55	—	—	—	48	25	3	76	131	—	—
Mean	19.1	1.5	1.1	0.1	0.5	0.1	3.2	17	47	4.6	2.8	1.5	0.2	4.5	7.7	39	4.4

*Includes 1 conservation permit.

Black bear mortality for Unit 16c – Central Mountains, South Manti, Utah 1990–2006.

Year	Permits issued	Sport harvest								Depredation / other mortality				Total			
		Adult		Subadult		Unknown	Total	% permits filled	% females	Mean age	Male	Female	Unknown	Total	Harvest + mortality	% females	Mean age
		Male	Female	Male	Female												
1990	17	1	0	1	0	0	2	12	0	—	0	0	0	0	2	0	—
1991	17	1	2	0	0	0	3	18	67	—	0	0	0	0	3	67	—
1992	17	2	1	2	0	0	5	29	20	—	1	1	0	2	7	29	—
1993	18	2	2	0	0	0	4	22	50	—	0	0	0	0	4	50	—
1994	20	0	0	0	0	0	0	0	—	—	0	0	0	0	0	—	—
1995	20	0	0	1	0	0	1	5	0	—	0	1	0	1	2	50	—
1996	20	2	1	0	1	0	4	20	50	—	1	0	0	1	5	40	—
1997	20	1	1	0	0	0	2	10	50	—	1	1	0	2	4	50	—
1998	16	2	0	1	0	0	3	19	0	—	1	3	0	4	7	43	7.5
1999	20	0	0	1	0	0	1	5	0	—	1	1	0	2	3	33	4.3
2000	20	2	1	0	0	0	3	15	33	—	10	2	0	12	15	20	1.7
2001	18	2	1	0	0	0	3	17	33	5.0	6	2	0	8	11	27	5.2
2002	12	1	0	0	0	0	1	8	0	3.0	2	2	0	4	5	40	3.0
2003	12	3	0	0	0	0	3	25	0	7.3	0	1	1	2	5	20	6.0
2004	11	2	1	1	0	0	4	36	25	3.0	3	2	0	5	9	33	5.2
2005	10	4	0	0	0	0	4	40	0	2.8	1	1	0	2	6	17	3.4
2006*	12	4	1	0	1	0	6	50	33	5.3	3	1	0	4	10	30	4.6
Total	280	29	11	7	2	0	49	—	—	—	30	18	1	49	98	—	—
Mean	16.5	1.7	0.6	0.4	0.1	0.0	2.9	18	27	4.4	1.8	1.1	0.1	2.9	5.8	32	4.5

*Includes 1 conservation permit.

Black bear mortality for Unit 17 – Wasatch Mountains (all subunits), Utah 1990–2000.

Year	Permits issued	Sport harvest								Depredation / other mortality				Total			
		Adult		Subadult		Unknown	Total	% permits filled	% females	Mean age	Male	Female	Unknown	Total	Harvest + mortality	% females	Mean age
		Male	Female	Male	Female												
1990	26	6	0	1	0	0	7	27	0	—	6	4	0	10	17	24	—
1991	11	1	0	0	0	0	1	9	0	—	2	0	0	2	3	0	—
1992	11	1	0	0	1	0	2	18	50	—	0	0	0	0	2	50	—
1993	14	0	2	1	0	0	3	21	67	—	1	1	0	2	5	60	—
1994	14	1	1	1	0	0	3	21	33	—	0	2	0	2	5	60	—
1995	14	2	0	0	0	0	2	14	0	—	3	2	0	5	7	29	—
1996	14	2	2	0	1	0	5	36	60	—	9	0	0	9	14	21	—
1997	10	1	1	0	0	0	2	20	50	—	2	0	0	2	4	25	—
1998	26	0	1	0	0	0	1	4	100	—	9	1	4	14	15	13	2.6
1999	35	5	2	0	0	0	7	20	29	—	5	2	6	13	20	20	3.9
2000	34	3	2	1	0	0	6	18	33	—	17	0	0	17	23	9	4.5
Total	209	22	11	4	2	0	39	—	—	—	54	12	10	76	115	—	—
Mean	19.0	2.0	1.0	0.4	0.2	0.0	3.5	19	33	—	4.9	1.1	0.9	6.9	10.5	22	3.7

Black bear mortality for Unit 17a – Wasatch Mountains, West, Utah 2001–2006.

Year	Permits issued	Sport harvest								Depredation / other mortality				Total			
		Adult		Subadult		Unknown	Total	% permits filled	% females	Mean age	Male	Female	Unknown	Total	Harvest + mortality	% females	Mean age
		Male	Female	Male	Female												
2001	20	1	0	0	0	0	1	5	0	12.0	3	2	0	5	6	33	5.7
2002	20	4	2	0	0	0	6	30	33	8.2	7	9	2	18	24	46	6.5
2003	20	4	2	0	3	1	10	50	50	—	4	0	0	4	14	36	5.5
2004	19	5	0	0	0	0	5	26	0	5.0	2	2	0	4	9	22	4.1
2005	18	3	1	0	0	0	4	22	25	5.3	5	2	0	7	11	27	5.6
2006*	19	6	1	0	0	0	7	37	14	5.3	2	4	1	7	14	36	4.0
Total	116	23	6	0	3	1	33	—	—	—	23	19	3	45	78	—	—
Mean	19.3	3.8	1.0	0.0	0.5	0.2	5.5	28	27	7.1	3.8	3.2	0.5	7.5	13.0	36	5.2

*Includes 1 conservation permit.

Black bear mortality for Units 17b and 17c – Wasatch Mountains, Currant Creek / Avintaquin, Utah 2001–2006.

Year	Permits issued	Sport harvest								Depredation / other mortality				Total			
		Adult		Subadult		Unknown	Total	% permits filled	% females	Mean age	Male	Female	Unknown	Total	Harvest + mortality	% females	Mean age
		Male	Female	Male	Female												
2001	14	0	0	0	0	0	0	0	—	—	0	0	0	0	0	—	—
2002	14	2	0	0	0	0	2	14	0	3.0	3	6	2	11	13	46	6.6
2003	14	2	0	0	0	0	2	14	0	—	4	2	0	6	8	25	5.2
2004	13	6	2	0	0	0	8	62	25	2.6	3	2	0	5	13	31	2.5
2005	13	1	0	0	0	0	1	8	0	2.0	1	1	0	2	3	33	6.5
2006*	16	1	2	0	0	0	3	19	67	2.0	6	5	2	13	16	44	2.0
Total	84	12	4	0	0	0	16	—	—	—	17	16	4	37	53	—	—
Mean	14.0	2.0	0.7	0.0	0.0	0.0	2.7	19	25	2.4	2.8	2.7	0.7	6.2	8.8	38	4.6

*Includes 1 conservation permit.

Black bear mortality for Unit 22 - Beaver, Utah 1990–2006.

Year	Permits issued	Sport harvest								Depredation / other mortality				Total			
		Adult		Subadult		Unknown	Total	% permits filled	% females	Mean age	Male	Female	Unknown	Total	Harvest + mortality	% females	Mean age
		Male	Female	Male	Female												
1990	1	0	0	0	0	0	0	0	—	—	0	0	0	0	0	—	—
1991	1	0	0	0	0	0	0	0	—	—	0	0	0	0	0	—	—
1992	1	0	0	0	0	0	0	0	—	—	0	0	0	0	0	—	—
1993	1	0	0	0	0	0	0	0	—	—	0	0	0	0	0	—	—
1994	1	0	0	0	0	0	0	0	—	—	0	0	0	0	0	—	—
1995	1	1	0	0	0	0	1	100	0	—	0	0	0	0	1	0	—
1996	1	0	0	0	0	0	0	0	—	—	0	0	0	0	0	—	—
1997	1	0	0	0	0	0	0	0	—	—	0	0	0	0	0	—	—
1998	1	0	0	0	0	0	0	0	—	—	0	0	0	0	0	—	—
1999	1	0	0	0	0	0	0	0	—	—	0	0	0	0	0	—	—
2000	1	0	0	0	0	0	0	0	—	—	0	0	0	0	0	—	—
2001	1	1	0	0	0	0	1	100	0	5.0	0	0	0	0	1	0	5.0
2002	1	0	0	0	0	0	0	0	—	—	1	2	0	3	3	67	—
2003	1	0	0	0	0	0	0	0	—	—	0	0	0	0	0	—	—
2004	1	1	0	0	0	0	1	100	0	7.0	0	0	0	0	1	0	7.0
2005	1	0	1	0	0	0	1	100	100	13.0	0	0	0	0	1	100	13.0
2006	2	1	0	0	0	0	1	50	0	4.0	0	0	0	0	1	0	4.0
Total	18	4	1	0	0	0	5	—	—	—	1	2	0	3	8	—	—
Mean	1.1	0.2	0.1	0.0	0.0	0.0	0.3	28	20	7.3	0.1	0.1	0.0	0.2	0.5	38	7.3

Black bear mortality for Unit 23 - Monroe, Utah 1990–2005.

Year	Permits issued	Sport harvest								Depredation / other mortality				Total			
		Adult		Subadult		Unknown	Total	% permits filled	% females	Mean age	Male	Female	Unknown	Total	Harvest + mortality	% females	Mean age
		Male	Female	Male	Female												
1990	1	0	0	0	0	0	0	0	—	—	0	0	0	0	0	—	—
1991	1	0	0	0	0	0	0	0	—	—	0	0	0	0	0	—	—
1992	1	0	0	0	0	0	0	0	—	—	0	0	0	0	0	—	—
1993	1	0	0	0	0	0	0	0	—	—	1	0	0	1	1	—	—
1994	1	0	0	0	0	0	0	0	—	—	0	0	0	0	0	—	—
1995	1	0	0	0	0	0	0	0	—	—	0	0	0	0	0	—	—
1996	1	0	0	0	0	0	0	0	—	—	0	0	0	0	0	—	—
1997	1	0	0	0	0	0	0	0	—	—	0	0	0	0	0	—	—
1998	1	0	0	0	0	0	0	0	—	—	0	0	0	0	0	—	—
1999	1	0	0	0	0	0	0	0	—	—	0	0	0	0	0	—	—
2000	1	0	0	0	0	0	0	0	—	—	0	0	0	0	0	—	—
2001	1	0	0	0	0	0	0	0	—	—	0	0	0	0	0	—	—
2002	1	0	0	0	0	0	0	0	—	—	0	0	0	0	0	—	—
2003	1	0	0	0	0	0	0	0	—	—	0	0	0	0	0	—	—
2004	1	0	0	0	0	0	0	0	—	—	0	0	0	0	0	—	—
2005	1	0	0	0	0	0	0	0	—	—	0	0	0	0	0	—	—
Total	16	0	0	0	0	0	0	—	—	—	1	0	0	1	1	—	—
Mean	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0	—	—	0.1	0.0	0.0	0.1	0.1	—	—

*Unit was pursuit only during 2006.

Black bear mortality for Units 25a and 25b – Plateau, Fish Lake / Thousand Lakes, Utah 1990–2006.

Year	Permits issued	Sport harvest								Depredation / other mortality				Total			
		Adult		Subadult		Unknown	Total	% permits filled	% females	Mean age	Male	Female	Unknown	Total	Harvest + mortality	% females	Mean age
		Male	Female	Male	Female												
1990	3	0	0	0	0	0	0	0	—	—	0	0	0	0	0	—	—
1991	3	1	0	0	0	0	1	33	0	—	0	0	0	0	1	0	—
1992	3	1	0	0	0	0	1	33	0	—	0	0	0	0	1	0	—
1993	3	1	0	0	0	0	1	33	0	—	1	0	0	1	2	0	—
1994	3	0	0	0	1	0	1	33	100	—	2	1	0	3	4	50	—
1995	4	2	1	0	0	0	3	75	33	—	1	1	0	2	5	40	—
1996	4	1	2	0	0	0	3	75	67	—	0	0	0	0	3	67	—
1997	4	3	0	0	0	0	3	75	0	—	0	0	0	0	3	0	—
1998	4	1	0	0	0	0	1	25	0	—	0	0	0	0	1	0	2.0
1999	4	1	0	0	0	0	1	25	0	—	0	0	0	0	1	0	2.0
2000	4	0	0	0	0	0	0	0	—	—	0	0	0	0	0	—	—
2001	4	0	0	0	0	0	0	0	—	—	1	1	0	2	2	50	—
2002	4	0	1	0	0	0	1	25	100	2.0	0	0	0	0	1	100	2.0
2003	4	3	0	0	0	0	3	75	0	5.3	1	0	0	1	4	0	4.5
2004	6	0	2	0	0	0	2	33	100	11.5	0	0	0	0	2	100	11.5
2005	6	1	0	0	0	0	1	17	0	7.0	1	0	0	1	2	0	7.0
2006	6	0	0	0	0	0	0	0	—	—	0	0	0	0	0	—	—
Total	69	15	6	0	1	0	22	—	—	—	7	3	0	10	32	—	—
Mean	4.1	0.9	0.4	0.0	0.1	0.0	1.3	32	32	6.5	0.4	0.2	0.0	0.6	1.9	31	4.8

Black bear mortality for Unit 25c – Plateau, Boulder, Utah 1990–2003.

Year	Permits issued	Sport harvest								Depredation / other mortality				Total			
		Adult		Subadult		Unknown	Total	% permits filled	% females	Mean age	Male	Female	Unknown	Total	Harvest + mortality	% females	Mean age
		Male	Female	Male	Female												
1990	3	0	0	0	0	0	0	0	—	—	1	0	0	1	1	0	—
1991	3	0	0	0	1	0	1	33	100	—	0	0	0	0	1	100	—
1992	3	1	0	0	0	0	1	33	0	—	0	0	0	0	1	0	—
1993	4	2	0	0	0	0	2	50	0	—	0	2	0	2	4	50	—
1994	5	0	1	0	0	0	1	20	100	—	2	2	0	4	5	60	—
1995	6	3	2	0	0	0	5	83	40	—	1	0	0	1	6	33	—
1996	8	2	2	0	0	0	4	50	50	—	3	0	0	3	7	29	—
1997	8	2	1	0	0	0	3	38	33	—	0	0	0	0	3	33	—
1998	8	1	1	0	0	0	2	25	50	—	2	0	0	2	4	25	4.0
1999	8	1	2	1	0	0	4	50	50	—	1	0	0	1	5	40	8.8
2000	8	2	1	1	0	0	4	50	25	—	0	0	0	0	4	25	5.8
2001	8	1	2	0	0	0	3	38	67	7.6	1	0	1	2	5	40	7.6
2002	8	2	1	0	1	0	4	50	50	3.0	1	0	0	1	5	40	3.0
2003	8	3	0	0	0	0	3	38	0	5.0	1	3	0	4	7	43	5.5
Total	88	20	13	2	2	0	37	—	—	—	13	7	1	21	58	—	—
Mean	6.3	1.4	0.9	0.1	0.1	0.0	2.6	42	41	5.2	0.9	0.5	0.1	1.5	4.1	38	5.8

Black bear mortality for Unit 26 - Kaiparowits, Utah 2000–2003.

Year	Permits issued	Sport harvest								Depredation / other mortality				Total			
		Adult		Subadult		Unknown	Total	% permits filled	% females	Mean age	Male	Female	Unknown	Total	Harvest + mortality	% females	Mean age
		Male	Female	Male	Female												
2000	1	1	0	0	0	0	1	100	0	4.0	0	0	0	0	1	0	—
2001	1	0	0	0	0	0	0	0	—	—	0	0	0	0	0	—	—
2002	1	0	0	0	0	0	0	0	—	—	1	0	0	0	1	0	—
2003	1	0	1	0	0	0	1	100	100	13.0	0	0	0	0	1	100	13.0
Total	4	1	1	0	0	0	2	—	—	—	1	0	0	0	3	—	—
Mean	1.0	0.3	0.3	0.0	0.0	0.0	0.5	50	50	8.5	0.3	0.0	0.0	0.0	0.8	33	13.0

Black bear mortality for Units 25c and 26 – Plateau, Boulder and Kaiparowits, Utah 2004–2006.

Year	Permits issued	Sport harvest								Depredation / other mortality				Total			
		Adult		Subadult		Unknown	Total	% permits filled	% females	Mean age	Male	Female	Unknown	Total	Harvest + mortality	% females	Mean age
		Male	Female	Male	Female												
2004	16	6	2	0	0	0	8	50	25	8.3	2	0	1	3	11	18	8.4
2005	16	2	2	0	0	0	4	25	50	4.8	1	1	1	3	7	43	6.6
2006*	16	5	1	0	0	0	6	38	17	12.0	0	2	1	3	9	33	9.5
Total	48	13	5	0	0	0	18	—	—	—	3	3	3	9	27	—	—
Mean	16.0	4.3	1.7	0.0	0.0	0.0	6.0	38	28	8.4	1.0	1.0	1.0	3.0	9.0	30	8.2

*Includes 1 conservation permit.

Black bear mortality for Unit 27 - Paunsaugunt, Utah 2003–2006.

Year	Permits issued	Sport harvest								Depredation / other mortality				Total			
		Adult		Subadult		Unknown	Total	% permits filled	% females	Mean age	Male	Female	Unknown	Total	Harvest + mortality	% females	Mean age
		Male	Female	Male	Female												
2003	1	0	0	0	0	0	0	0	—	—	0	0	0	0	0	—	—
2004	1	0	0	0	0	0	0	0	—	—	0	1	0	1	1	100	—
2005	2	1	0	0	0	0	1	50	0	3.0	0	0	0	0	1	0	3.0
2006	2	0	1	0	0	0	1	50	100	—	0	0	0	0	1	100	—
Total	6	1	1	0	0	0	2	—	—	—	0	1	0	1	3	—	—
Mean	1.5	0.3	0.3	0.0	0.0	0.0	0.5	33	50	3.0	0.0	0.3	0.0	0.3	0.8	67	3.0

Black bear mortality for Units 28 and 29 – Panguitch Lake and Zion, Utah 1990–2006.

Year	Permits issued	Sport harvest								Depredation / other mortality				Total			
		Adult		Subadult		Unknown	Total	% permits filled	% females	Mean age	Male	Female	Unknown	Total	Harvest + mortality	% females	Mean age
		Male	Female	Male	Female												
1990	3	0	0	0	0	0	0	0	—	—	1	0	0	1	1	0	—
1991	3	1	0	0	0	0	1	33	0	—	2	0	0	2	3	0	—
1992	3	0	0	0	0	0	0	0	—	—	2	0	0	2	2	0	—
1993	3	0	0	0	0	0	0	0	—	—	0	0	0	0	0	—	—
1994	4	1	0	0	0	0	1	25	0	—	1	0	0	1	2	0	—
1995	8	1	0	0	0	0	1	13	0	—	1	1	0	2	3	33	—
1996	8	0	0	0	0	0	0	0	—	—	4	0	0	4	4	0	—
1997	8	0	0	0	0	0	0	0	—	—	0	0	0	0	0	—	—
1998	8	0	0	0	0	0	0	0	—	—	1	0	0	1	1	0	—
1999	8	0	1	0	0	0	1	13	100	5.7	2	0	0	2	3	33	—
2000	6	0	0	0	0	0	0	0	—	—	0	0	0	0	0	—	—
2001	6	0	1	0	0	0	1	17	100	19.0	0	1	0	1	2	100	19.0
2002	6	0	1	0	0	0	1	17	100	11.0	4	0	0	4	5	20	11.0
2003	11	2	1	0	0	0	3	27	33	5.3	0	0	0	0	3	33	5.3
2004	11	2	0	0	0	0	2	18	0	8.0	2	0	0	2	4	0	4.0
2005	11	0	0	0	0	0	0	0	—	—	2	1	0	3	3	33	4.3
2006*	11	0	1	0	0	0	1	9	100	4.0	0	0	0	0	1	100	4.0
Total	118	7	5	0	0	0	12	—	—	—	22	3	0	25	37	—	—
Mean	6.9	0.4	0.3	0.0	0.0	0.0	0.7	10	42	8.8	1.3	0.2	0.0	1.5	2.2	22	7.9

*Includes 1 conservation permit.